

**ABSTRACT**

[0076] One embodiment is a method for adjusting impedance of a power amplifier system comprising combining an output of a first power amplifier with an output of a second power amplifier via a coupler that couples an output connection of the first power amplifier with an output connection of the second power amplifier, wherein a prematching impedance network coupled to the second power amplifier adjusts a system impedance to a first value when the second power amplifier is not actuated, and wherein the prematching impedance network adjusts the system impedance to a second value when the second power amplifier is actuated.